

Warmup

What is the propagation delay of this circuit?

Assume each block has a propagation delay of 30 ns.

Submit your answer on pollev.com/stevenbell699

ES 4: Arithmetic circuits

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By the end of class today, you should be able to:

- Explain the basic principles of a carry-lookahead adder, and why it is faster than a ripple-carry adder.
- Explain what an ALU is, and describe the function of the control and flags signals.

Testing an AND gate

Logistics stuff

Monday will be review - bring questions!

Long is hosting a review on Tuesday (10am-12pm ok?)

Q&A on Piazza

Carry-lookahead adder

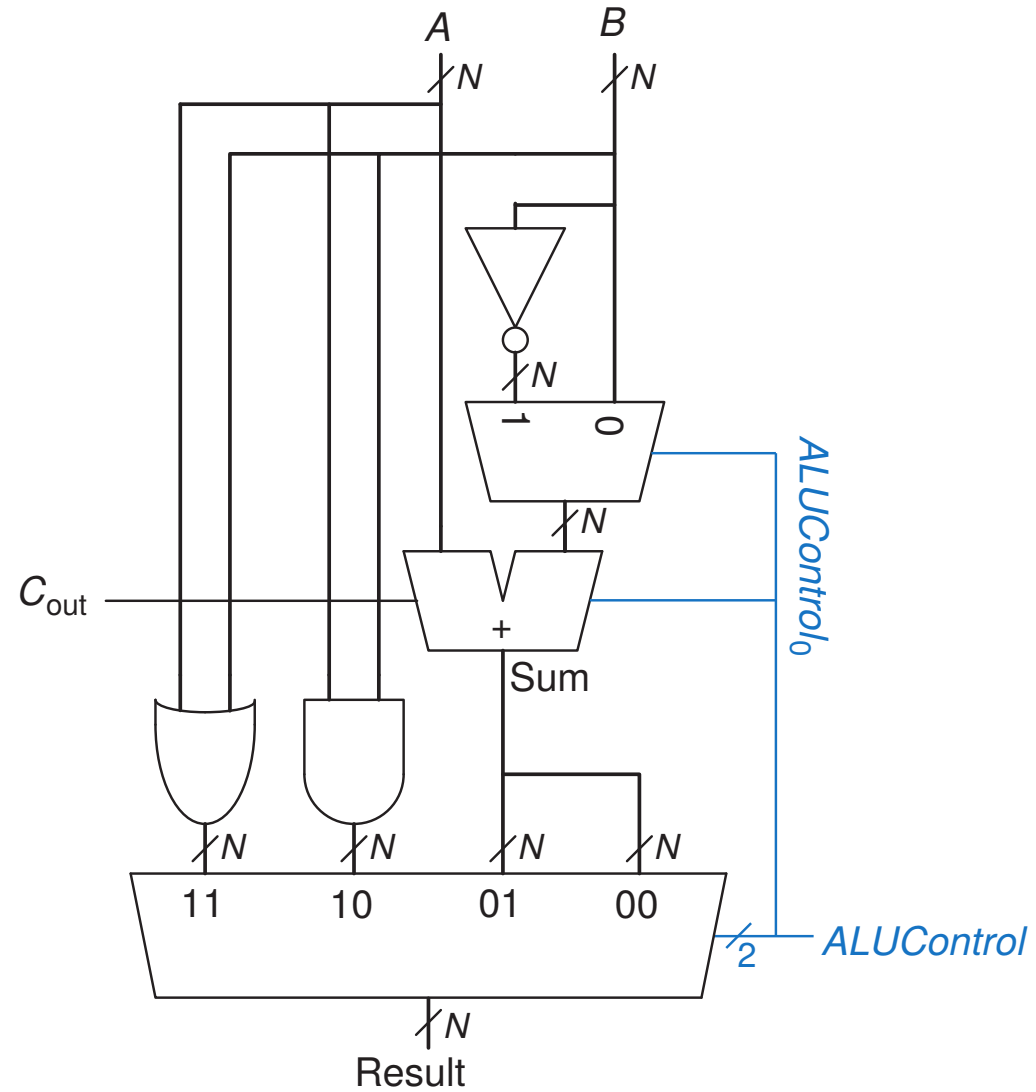
Where are we?

We've built lots of stuff with combinational logic

We can even build the core of a computer

After the exam, we're going to talk about storage

Arithmetic Logic Unit (ALU)



For Monday

1. Homework 4 (short, and posted soon) is due next Monday (2/25)
via **provide es4 hw4**
2. Lab report 2 due next Wednesday (2/27)
3. Come on Monday with questions!